

What is claimed is:

1. A system for drawing a patent map using a technical field word, comprising:

5 a storing unit for receiving a download of patent information from at least one patent information providing site and storing it;

10 an extractive object selection and sentence extracting unit for selecting at least one word extraction object and extracting a sentence of the selected word extraction object from the patent information stored at the storing unit;

a clause separating unit for separating, in a unit of a clause, the sentence of the extractive object selected in the extractive object selection and sentence extracting unit;

15 a word extracting unit for counting the number of words in the sentence which is separated in a unit of a clause in the clause separating unit, calculating weight values and the sum of the weight values by respective words, and extracting the word;

20 a word matching unit for matching the word extracted from the word extracting unit, with a patent;

a patent map drawing unit for drawing a patent map referring to data matched in the word matching unit; and

25 a patent map drawing controlling unit for controlling the word extraction object of the extractive object selection and sentence extracting unit.

2. The system as recited in claim 1, wherein said word extracting unit includes:

a respective word counting part for counting the number of words per each word in the sentence based on a unit of a clause outputted from the clause separating unit;

a weight value calculating part for dividing the rest respective words number by the most many word number among the words counted in the respective word counting part, and calculating the weight value per word;

a word weight value sum calculating part for calculating the sum of weight values per word calculated in the weight value calculating part; and

a word extracting part for receiving the words from the word weight value sum calculating part, arranging them in an order of the weight value sum, and extracting the word by up to a range selected in a weight value sequential order.

3. The system as recited in claim 1, wherein said word extracting unit includes:

a respective word counting part for counting the number of the words per each word in the sentence based on a unit of a clause outputted from the clause separating unit;

a weight value calculating part for dividing the rest respective words number by the most many word number among the words counted in the respective word counting part, and calculating the weight value per word;

a word weight value sum calculating part for calculating

the sum of weight values per word calculated in the weight value calculating part;

a useless word removing part for arranging the words in an order of the weight value sum computed in the word weight value sum calculating part, and removing a useless word from a corresponding word; and

a word extracting part for selectively receiving the words having a removal of the useless word in the useless word removing part, or the words provided from the word weight value sum calculating part, by a control of the patent map drawing controlling unit, for arranging them in an order of the weight value sum, and extracting the words by up to the range selected in a weight value sequential order.

4. The system as recited in claim 1, wherein the word extractive object contains at least one object among the title of the invention, the claims, the abstract and the detailed description of the invention.

5. A system for drawing a patent map using a technical field word, comprising:

a storing unit for receiving a download of patent information from at least one patent information providing site and storing it;

an extractive object selection and sentence extracting unit for selecting at least one word extraction object and extracting a sentence of the selected word extraction object

from the patent information stored at the storing unit;

a clause separating unit for separating, in a unit of a clause, the sentence of the extractive object selected in the extractive object selection and sentence extracting unit;

5 a useless character eliminating part for removing a useless character corresponding to an already stored useless word list from a sentence based on a unit of a clause which is separated in the clause separating unit, and extracting the sentence based on a unit of a clause which has a removal of
10 the useless character;

a word extracting unit for selectively receiving the sentence based on a unit of a clause from which the useless character is removed in the useless character eliminating unit, or the sentence separated in a unit of a clause in the clause
15 separating unit, counting the number of words, calculating a weight value and a weight value sum per word, and extracting the word;

a word matching unit for matching the word extracted in the word extracting unit with a patent;

20 a patent map drawing unit for drawing a patent map referring to data matched in the word matching unit; and

a patent map drawing controlling unit for controlling the word extraction object of the extractive object selection and sentence extracting unit, and controlling a selective output
25 of the clause separating unit.

6. The system as recited in claim 5, wherein said useless

character eliminating unit includes at least any one out of:

a common useless character removing part for removing the useless character from the sentence of a clause unit provided from the clause separating unit on the basis of a common
5 useless word list which is applied to the useless word per worldwide language;

a useless character removing part for eliminating a useless first syllable from the sentence based on a unit of a clause by a first syllable useless word list, or removing a
10 useless end syllable by an end syllable useless word list; and

a foreign language useless character removing part for removing a plural type word of foreign language or processing a capital letter and a small letter equally.

15 7. The system as recited in claim 5, wherein the word extractive object contains at least one object among the title of the invention, the claims, the abstract and the detailed description of the invention.

20 8. A method of drawing a patent map using a technical field word in a patent map drawing system, said method comprising the steps of:

a) receiving a download of patent information from at least one patent information providing site and storing it at
25 an inside database;

b) selecting at least one word extraction object and extracting a sentence from the patent information stored at

the inside database;

c) separating, in a unit of a clause, the sentence of the selected extractive object;

5 d) eliminating a useless character corresponding to an already stored useless word list from the sentence separated in a unit of a clause, and extracting the sentence of a clause unit which is gotten by removing the useless character;

10 e) selectively receiving the sentence based on a unit of a clause from which the useless character is removed, or the sentence separated in a unit of a clause, counting the number of words, calculating weight values and the sum of the weight values by respective words, and extracting the word; and

15 f) matching the extracted word with a patent, and drawing the patent map.

9. The method as recited in claim 8, wherein said step d) includes the step of d1) removing the useless character from the sentence separated in a unit of a clause, according to the common useless word list which is applied to the useless word
20 of worldwide languages.

10. The method as recited in claim 8, wherein said step d) further includes the step of d2) eliminating a useless first syllable from the sentence based on a unit of a clause
25 from which the common useless character is removed, according to a first syllable useless word list of Korean language, and removing a useless end syllable by an end syllable useless

word list.

11. The method as recited in claim 8, wherein said step
d) further includes the step of d3) eliminating a plural type
5 word of foreign language from the sentence based on a unit of
a clause from which the useless characters of a first syllable
and an end syllable are removed, and processing a capital
letter and a small letter equally.

10 12. The method as recited in claim 8, wherein said step
e) includes the steps of:

e1) selectively receiving the sentence based on a unit of
a clause from which the useless character is removed, or the
sentence separated in a unit of a clause, and counting the
15 number of words for respective words;

e2) dividing the rest respective words number by the most
many word number among the counted words, calculating the
weight value per word, and computing the weight value sum per
this calculated word; and

20 e3) arranging the words in which the weight value sum is
calculated, in an order of the weight value sum, and
extracting the word by up to a range selected in an weight
value sequential order.

25 13. The method as recited in claim 8, wherein said step
e) includes the steps of:

e1) selectively receiving the sentence based on a unit of

a clause from which the useless character is removed, or the sentence separated in a unit of a clause, and counting the number of words for respective words;

e2) dividing the rest respective words number by the most
5 many word number among the counted words, calculating the weight value per word, and computing the weight value sum per this calculated word;

e3) arranging the words in which the weight value sum is
10 calculated, in an order of the weight value sum, and removing the useless word from a corresponding word; and

e4) selectively receiving the word from which the useless
word is removed, or the word in which the weight value sum is
computed, arranging the words in an order of the weight value
sum, and extracting the word by up to the range selected in an
15 weight value sequential order.

14. A computer readable recording medium storing
instructions for executing a method of drawing a patent-map
using a technical field word, in a patent map drawing system
20 having a processor, said method comprising the steps of:

a) receiving a download of patent information from at
least one patent information providing site and storing it at
an inside database;

b) selecting at least one word extraction object and
25 extracting a sentence from the patent information stored at
the inside database;

c) separating, in a unit of a clause, the sentence of the

selected extractive object;

d) eliminating a useless character corresponding to an already stored useless word list from the sentence separated in a unit of a clause, and extracting the sentence of a clause unit which is gotten by removing the useless character;

e) selectively receiving the sentence based on a unit of a clause from which the useless character is removed, or the sentence separated in a unit of a clause, counting the number of words, calculating weight values and the sum of the weight values by respective words, and extracting the word; and

f) matching the extracted word with a patent, and drawing the patent map.